

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 101823, 142A  
Source: TEWO  
Date Processed by STIC: 4-26-05

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 04/26/2005

PATENT APPLICATION: US/10/823,142A

TIME: 16:36:20

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\04182005\J823142A.raw

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3 <110> APPLICANT: AVENTIS PHARMA SA
4     GUILLAUME, Jean-Marc
5     DITTRICH, Werner
6     PEREZ, Sandrine
7     ANDREONI, Christine Michelle Pierrette
8     PAILLOT, Romain
10 <120> TITLE OF INVENTION: METHOD FOR OBTAINING MASTOCYTE LINES FROM PIG TISSUES AND
FOR PRODUCING
11     HEPARIN-TYPE MOLECULES
W--> 12 <130> FILE REFERENCE: FRAV2003/0009 US NP
14 <140> CURRENT APPLICATION NUMBER: 10/823,142A
15 <141> CURRENT FILING DATE: 2004-04-13
17 <150> PRIOR APPLICATION NUMBER: 60/477,962
18 <151> PRIOR FILING DATE: 2003-06-12
20 <150> PRIOR APPLICATION NUMBER: FR 0304671
21 <151> PRIOR FILING DATE: 2003-04-14
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25 <170> SOFTWARE: PatentIn Ver. 2.1
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58 agaggcgctc gccgcgcctg ggattttctc ttcgtcctgc agctcttgct tcgcgtccag      180
60 acaggctctt ctcagccatc tgtgagtcca gaggaactgt ctccaccatc catccagcca      240
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68 ggtttaagca gttccattta tgtgtttgtt agagatcctg agaagctttt cctcgtcgac 480
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190 <213> ORGANISM: Sus scrofa
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199 Glu Leu Ser Pro Pro Ser Ile Gln Pro Ala Lys Ser Glu Leu Ile Val
200 35 40 45
202 Ser Ala Gly Asp Glu Ile Arg Leu Phe Cys Thr Asp Pro Gly Ser Val
203 50 55 60
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206 65 70 75 80
208 Glu Trp Ile Val Glu Lys Ala Glu Ala Met Asn Thr Gly Asn Tyr Thr
209 85 90 95
211 Cys Thr Asn Glu Gly Gly Leu Ser Ser Ser Ile Tyr Val Phe Val Arg
212 100 105 110
214 Asp Pro Glu Lys Leu Phe Leu Val Asp Pro Pro Leu Tyr Gly Lys Glu
215 115 120 125
217 Asp Asn Asp Ala Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr
218 130 135 140
220 Asn Tyr Ser Leu Thr Gly Cys Glu Gly Lys Pro Leu Pro Lys Asp Leu
221 145 150 155 160
223 Thr Phe Val Ala Asp Pro Lys Ala Gly Ile Thr Ile Lys Asn Val Lys
224 165 170 175
226 Arg Glu Tyr His Arg Leu Cys Leu His Cys Ser Ala Asn Gln Gly Gly
227 180 185 190
229 Lys Ser Val Leu Ser Lys Lys Phe Thr Leu Lys Val Arg Ala Ala Ile
230 195 200 205
232 Arg Ala Val Pro Val Val Ala Val Ser Lys Ala Ser Tyr Leu Leu Arg
233 210 215 220
235 Glu Gly Glu Glu Phe Ala Val Met Cys Leu Ile Lys Asp Val Ser Ser
236 225 230 235 240
238 Ser Val Asp Ser Met Trp Ile Arg Glu Asn Ser Gln Thr Lys Ala Gln
239 245 250 255

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244 Glu Arg Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe
245      275      280      285
247 Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr
248      290      295      300
250 Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Met Asn
251 305      310      315      320
253 Thr Thr Val Phe Val Asn Asp Gly Glu Asp Val Asp Leu Ile Val Glu
254      325      330      335
256 Tyr Glu Ala Tyr Pro Lys Pro Glu His Arg Gln Trp Ile Tyr Met Asn
257      340      345      350
259 Arg Thr Ala Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
260      355      360      365
262 Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly
263      370      375      380
265 Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ala Asp Val Asn
266 385      390      395      400
268 Ser Ser Val Thr Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu
269      405      410      415
271 Thr His Asp Arg Leu Met Asn Gly Met Leu Gln Cys Val Ala Ala Gly
272      420      425      430
274 Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln
275      435      440      445
277 Arg Cys Ser Val Pro Val Gly Pro Val Asp Val Gln Ile Gln Asn Ser
278      450      455      460
280 Ser Val Ser Pro Phe Gly Lys Leu Val Ile His Ser Ser Ile Asp Tyr
281 465      470      475      480
283 Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Arg Ala Tyr Asn Asp
284      485      490      495
286 Val Gly Lys Ser Ser Ala Phe Phe Asn Phe Ala Phe Lys Glu Gln Ile
287      500      505      510
289 His Ala His Thr Leu Phe Thr Pro Leu Leu Ile Gly Phe Val Ile Ala
290      515      520      525
292 Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr Tyr Lys Tyr Leu
293      530      535      540
295 Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val Glu Glu Ile Asn
296 545      550      555      560
298 Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu Pro Tyr Asp His
299      565      570      575
301 Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly Lys Thr Leu Gly
302      580      585      590
304 Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala Tyr Gly Leu Ile
305      595      600      605
307 Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met Leu Lys Pro Ser
308      610      615      620
310 Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu Leu Lys Val Leu
311 625      630      635      640
313 Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu Leu Gly Ala Cys

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314          645          650          655
316 Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr Cys Cys Tyr Gly
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319 Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser Phe Ile Cys Ser
320          675          680          685
322 Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys Asn Leu Leu His
323          690          695          700
325 Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu Tyr Met Asp Met
326 705          710          715          720
328 Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala Asp Lys Arg Arg
329          725          730          735
331 Ser Ala Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val Thr Pro Ala Ile
332          740          745          750
334 Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp Leu Leu Ser Phe
335          755          760          765
337 Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala Ser Lys Asn Cys
338          770          775          780
340 Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly Arg
341 785          790          795          800
343 Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Lys Asn Asp
344          805          810          815
346 Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro Val Lys Trp Met
347          820          825          830
349 Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe Glu Ser Asp Val
350          835          840          845
352 Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser Leu Gly Ser Ser
353          850          855          860
355 Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr Lys Met Ile Lys
356 865          870          875          880
358 Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro Ala Glu Met Tyr
359          885          890          895
361 Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu Lys Arg Pro Thr
362          900          905          910
364 Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile Ser Glu Ser Thr
365          915          920          925
367 Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro His Arg Glu Asn
368          930          935          940
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371 945          950          955          960
373 Ser Ser Thr Gln Pro Leu Leu Val His Glu Asp Val
374          965          970
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378 <211> LENGTH: 8
379 <212> TYPE: PRT
380 <213> ORGANISM: Sus scrofa
382 <400> SEQUENCE: 3
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384 1 5
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/823,142A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 38,41,3637,3923

Seq#:13; N Pos. 4,13

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 184

**VERIFICATION SUMMARY**

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L:12 M:283 W: Missing Blank Line separator, <130> field identifier

L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

M:341 Repeated in SeqNo=1

L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0